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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/088,970	07/19/2002	Tai-Tung Yip	16866-38-1PC	6649	
7590 11/17/2004			EXAMINER		
Peter K Seperack			FETTEROLF, BRANDON J		
10 // 110 0110	Fownsend and Crew ero Center 8th Floor	ART UNIT	PAPER NUMBER		
San Francisco, CA 94111			1642		
			DATE MAILED: 11/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No		Applicant(s)				
		10/088,970		YIP ET AL.				
		Examiner		Art Unit				
		Brandon J Fette		1642				
 Period for	The MAILING DATE of this communication app Reply	ears on the cov	er sheet with the c	orrespondence addr	ess			
THE M Extension after SI - If the poly If NO poly Failure - Any rep	RTENED STATUTORY PERIOD FOR REPLY AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period w to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, how within the statutory many will apply and will expiration cause the application	wever, may a reply be tim inimum of thirty (30) days e SIX (6) MONTHS from to to become ABANDONEI	ely filed s will be considered timely. the mailing date of this comr O (35 U.S.C. § 133).	munication.			
Status	•							
1) 🗌 F	Responsive to communication(s) filed on	_ •						
,—	☐ This action is FINAL . 2b) ☐ This action is non-final.							
,	_ ··							
C	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositio	n of Claims			•				
4)× (Claim(s) <u>1-83</u> is/are pending in the application.			-				
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
•	S) Claim(s) is/are rejected.							
,	7) Claim(s) is/are objected to. 8) Claim(s) 1-83 are subject to restriction and/or election requirement.							
8)[[]	cialm(s) <u>1-83</u> are subject to restriction and/or e	election require	nent.					
Applicatio	n Papers							
	he specification is objected to by the Examine			-				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ur	nder 35 U.S.C. § 119		•	,				
· ·	cknowledgment is made of a claim for foreign]All b)☐ Some * c)☐ None of:)-(d) or (f).				
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
					•			
Attachment(. F	Intendeur Commerce	(DTO 412)				
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		Interview Summary Paper No(s)/Mail Da	ate				
3) Inform	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		☐ Notice of Informal F ☐ Other: <i>Molecular W</i>	Patent Application (PTO-1 leight Determination.	152)			

Application/Control Number: 10/088,970

Art Unit: 1642

Yip et al. Claims Pending: 1-83

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-17, and 19-23, as specifically drawn to the special technical feature of a method for adding a prostate cancer diagnosis.

Group 2, claim(s) 13 and 18, as specifically drawn to the special technical feature of a method of aiding a prostate cancer diagnosis by determining the test amounts of a plurality of markers.

Group 3, claim(s) 24-48 and 50-59, as specifically drawn to the special technical feature of a method of detecting a marker, wherein the marker is differentially present in samples of a prostate cancer patient and a benign prostate hyperplasia patient.

Group 4, claim(s) 24, 47, 49-50, 58, and 60, as specifically drawn to the special technical feature of a method of detecting a plurality of marker, wherein the markers are differentially present in samples of a prostate cancer patient and a benign prostate hyperplasia patient.

Group 5, claim(s) 61-83, as specifically drawn to the special technical feature of a kit for aiding a diagnosis of prostate cancer.

The inventions listed as Groups 1-5 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking Groups 1-5 appears to be a method of diagnosing prostate cancer by determining the amount of a polypeptide having an apparent which is differentially resent in samples of a prostate cancer patient and a benign prostate hyperplasia patient, wherein the polypeptide has an apparent molecular weight of less than 27,000 Da.

Art Unit: 1642

However, Zetter *et al.* (US 5,858,681, 1999) teach an amino acid sequence set forth in SEQ ID NO: 2 referred to as "thymosin B15" and a method for diagnosing cancer, especially prostate, lung, melanoma, and breast cancer in a patient by measuring levels of thymosin B15 in a biological specimen obtained from a patient (column 2, lines 60-64). Specially, the patent discloses (Table 1) that thymosin B15 (SEQ IN NO: 2) is differentially present in prostate carcinoma compared to benign prostate hyperplasia. Zetter *et al.* further disclose the amino acid sequence set forth in SEQ ID NO: 2 as consisting of 45 amino acids which appears to have a molecular weight that is less than 27,000 Da, i.e. 5304.10 Da (see attached from www.Scripps.edu/~cdputnam/protcalc.html).

Therefore, the technical feature linking the inventions of Groups 1-5 does not constitute a special technical feature as defined by PCT Rule 13.2 as it does not define a contribution over the prior art.

Species Election

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Claims 2, 5, 39, 43, 51, and 55, contain a polypeptide having an apparent molecular weight of:

- 1) 2276 Da
- 2) 2530 Da
- 3) 2095 Da
- 4) 3030 Da
- 5) 3038 Da
- 6) 3038 Da
- 7) 3224 Da
- 8) 3600 Da
- 9) 3835 Da
- 10) 3915 Da
- 11) 3933 Da
- 12) 4175 Da

Application/Control Number: 10/088,970

Art Unit: 1642

- 13) 4423 Da
- 14) 4480 Da

ect.

Claims 25-33, contain one of the following "absorbents":

- 1) Hydrophobic group and an anionic group
- 2) Polystyrene bead functionalized with a sulfonate group
- 3) Hydrophobic Group
- 4) Aliphatic C₁₆ hydrocarbon group
- 5) Metal Chelating group with/without Metal ion
- 6) Antibody

Claims 65-73 contain one of the following "substances":

- 1) Hydrophobic group and an anionic group
- 2) Polystyrene bead functionalized with a sulfonate group
- 3) Hydrophobic Group
- 4) Aliphatic C₁₆ hydrocarbon group
- 5) Metal Chelating group with/without Metal ion
- 6) Antibody

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Art Unit: 1642

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The products of the above species represent separate and distinct molecules with different structures and functions such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

Additionally, the steps and reagents of the above species are completely distinct and impart different biological functions and uses such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

Note:

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon J Fetterolf, PhD whose telephone number is (571)-272-2919. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brandon J Fetterolf, PhD Examiner Art Unit 1642

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